

FIG. 1

FIG. 1

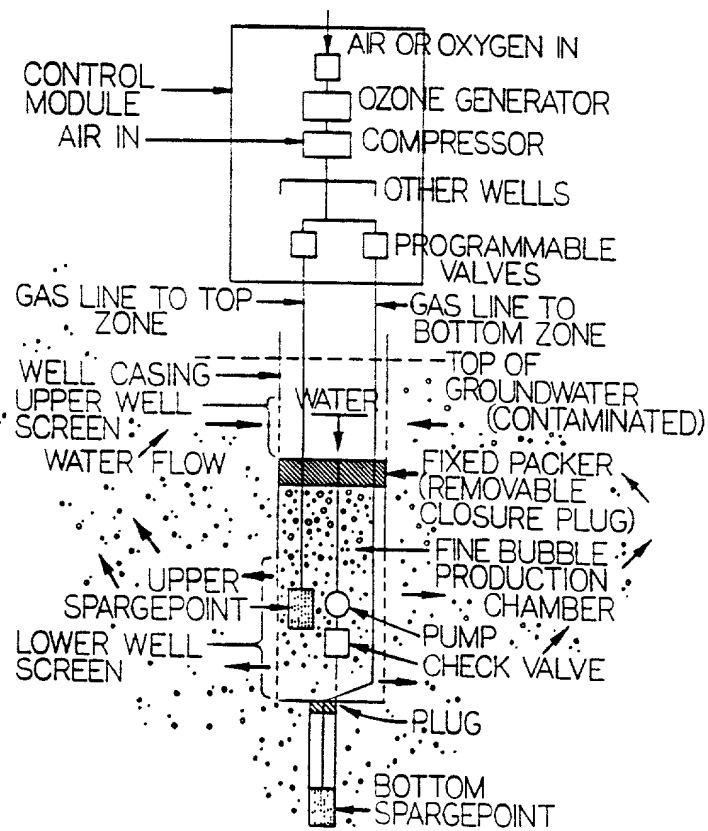


FIG. 2

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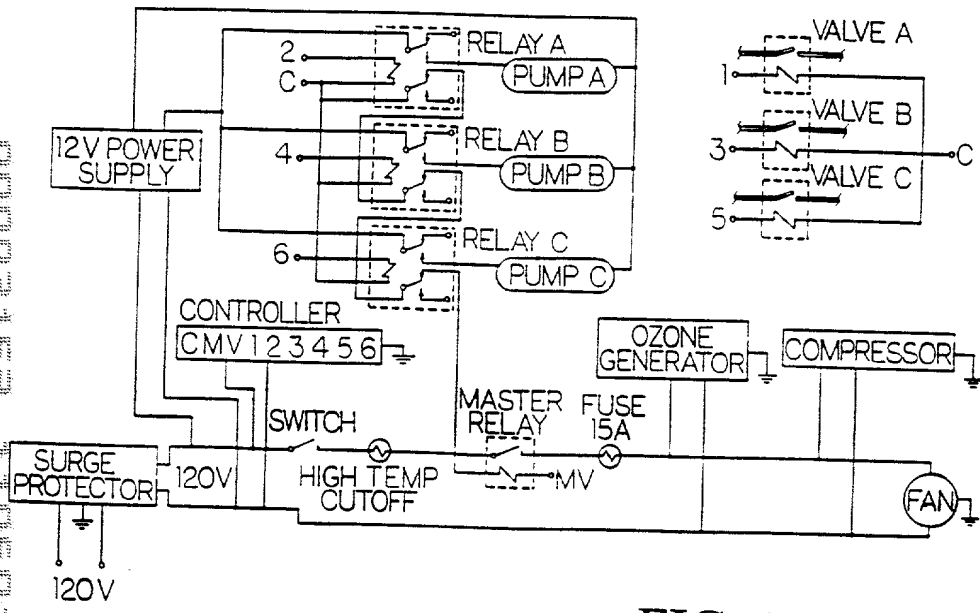


FIG. 3

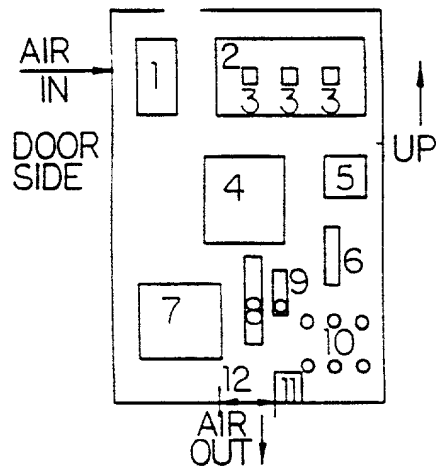


FIG. 4

- 1 AC TO DC POWER CONVERTER (OR TRICKLE CHARGED LEAD ACID BATTERY)
- 2 OZONE GENERATOR
- 3 WELL GAS RELAYS (3 WELLS SHOWN)
- 4 COMPRESSOR
- 5 MASTER RELAY
- 6 15A MAIN FUSE
- 7 PROGRAMMABLE TIMER - CONTROLLER
- 8-POWER STRIP
- 9 GAS REGULATOR AND PRESSURE GAGE
- 10 SOLENOID MANIFOLD (NUMBER DEPENDS ON SERIES AND NUMBER WELLS)
- 11 GROUND FAULT INTERRUPTOR
- 12 COOLING FAN

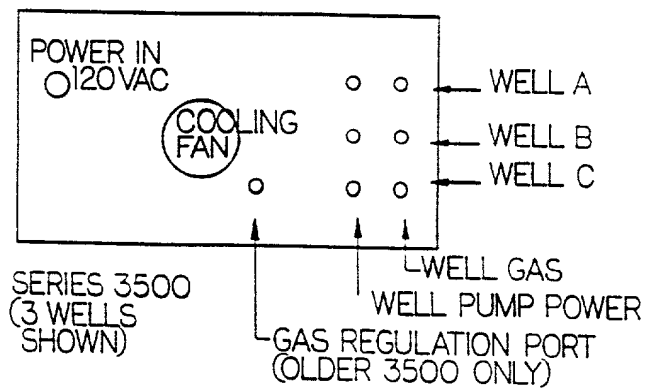


FIG. 5A

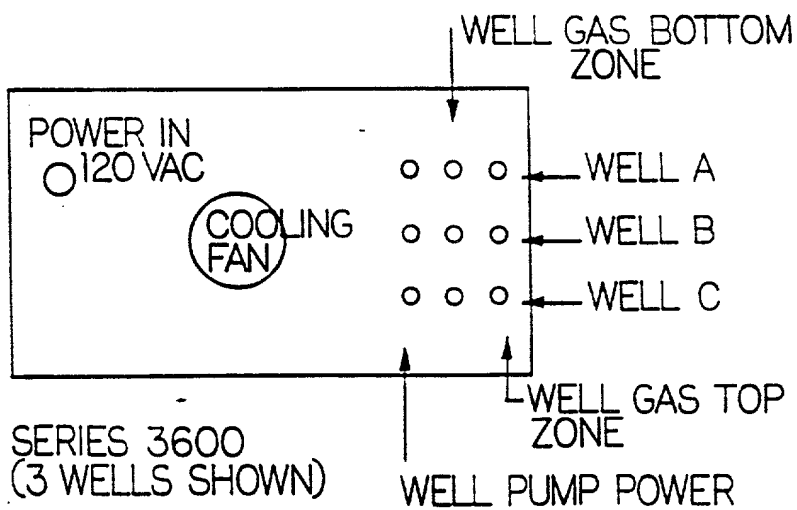


FIG. 5B

FIG. 6

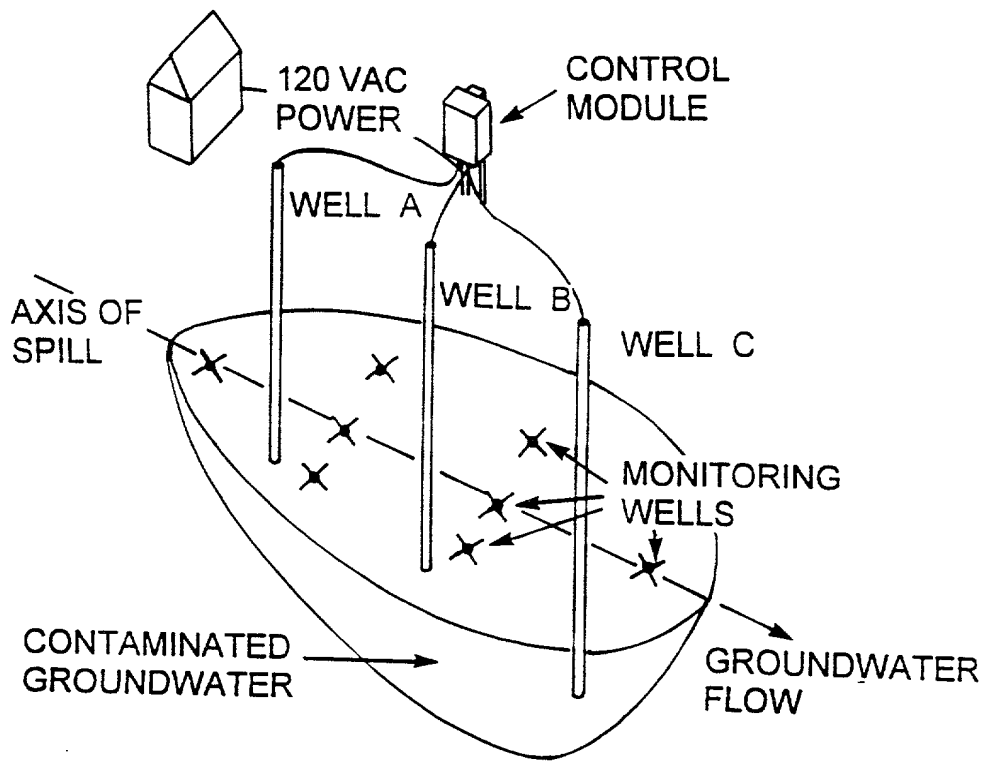


FIG. 6

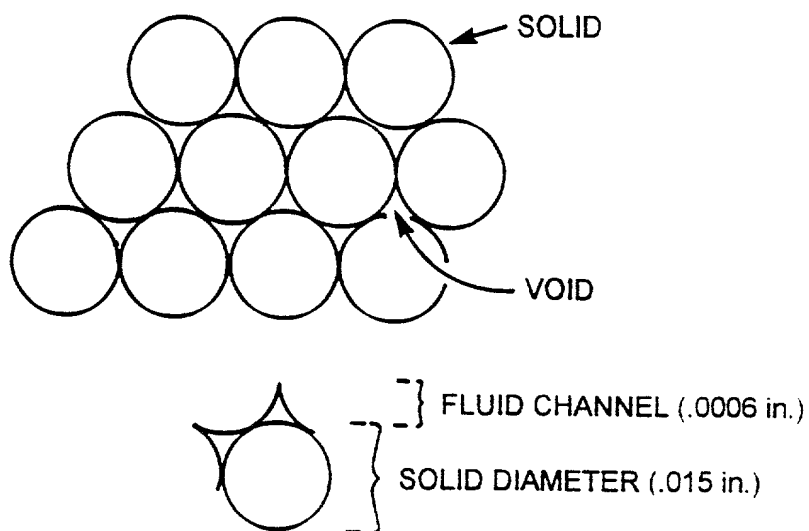
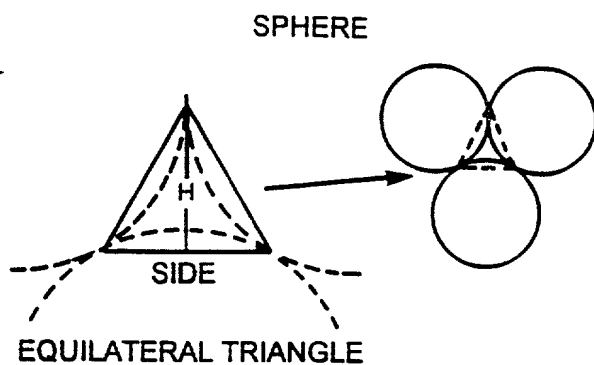
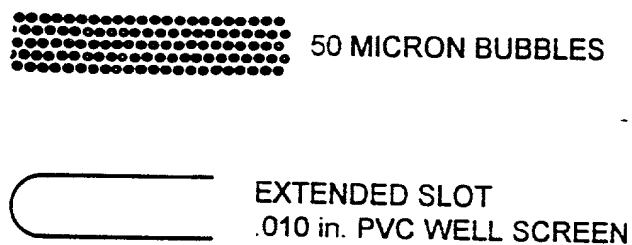


FIG. 7



STANDARD WELL SCREEN

FIG. 8

THE

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FIG. 10

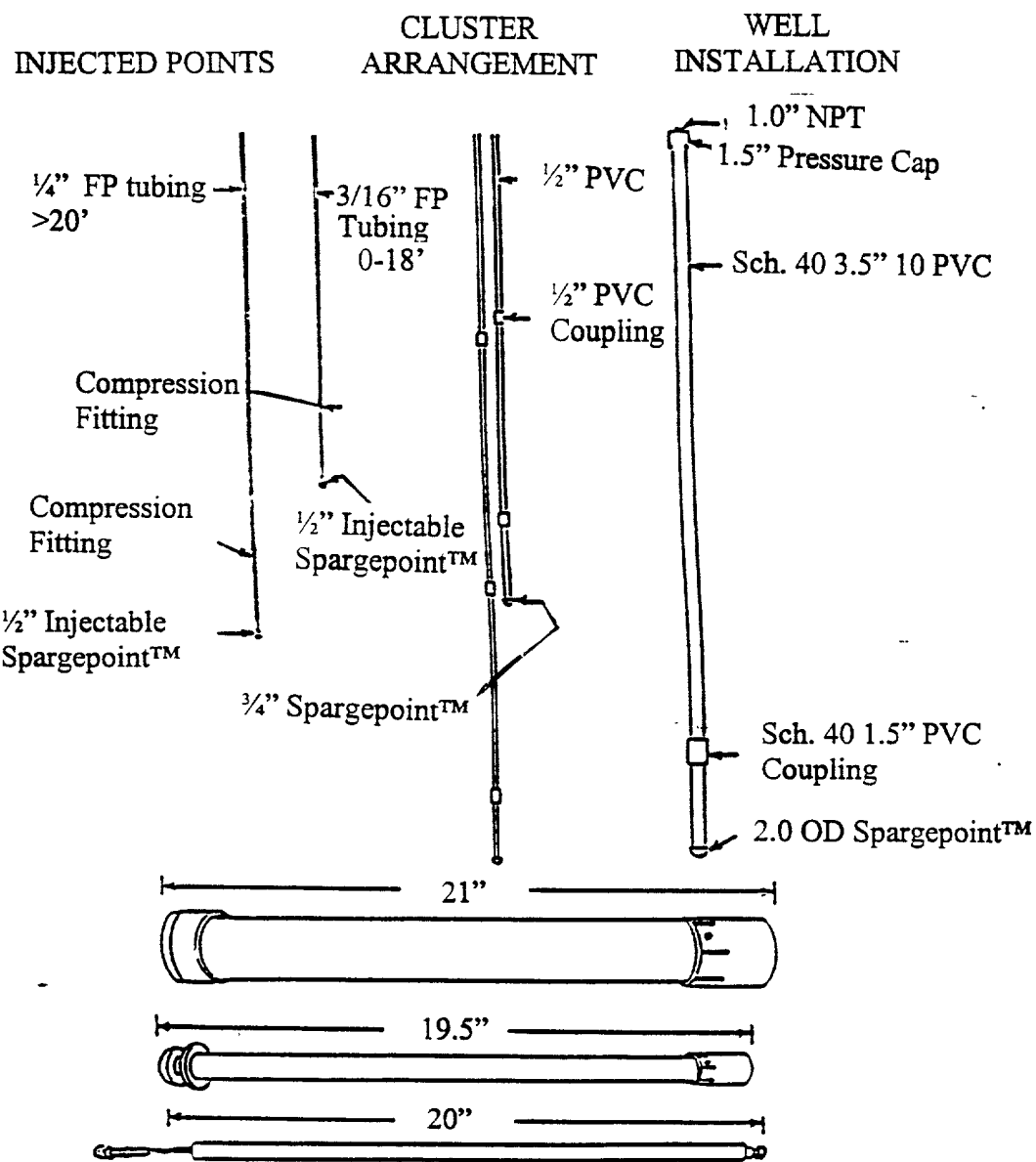


FIG. 10

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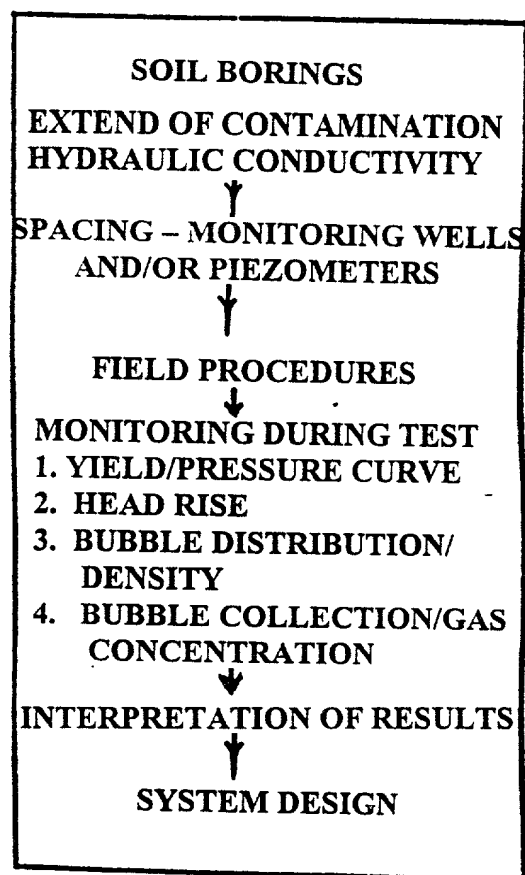


FIG. 11

SPARGEPOINT™ TEST ASSEMBLY
1/2" OR 3/4" POINT WITH 1 INCH CASING

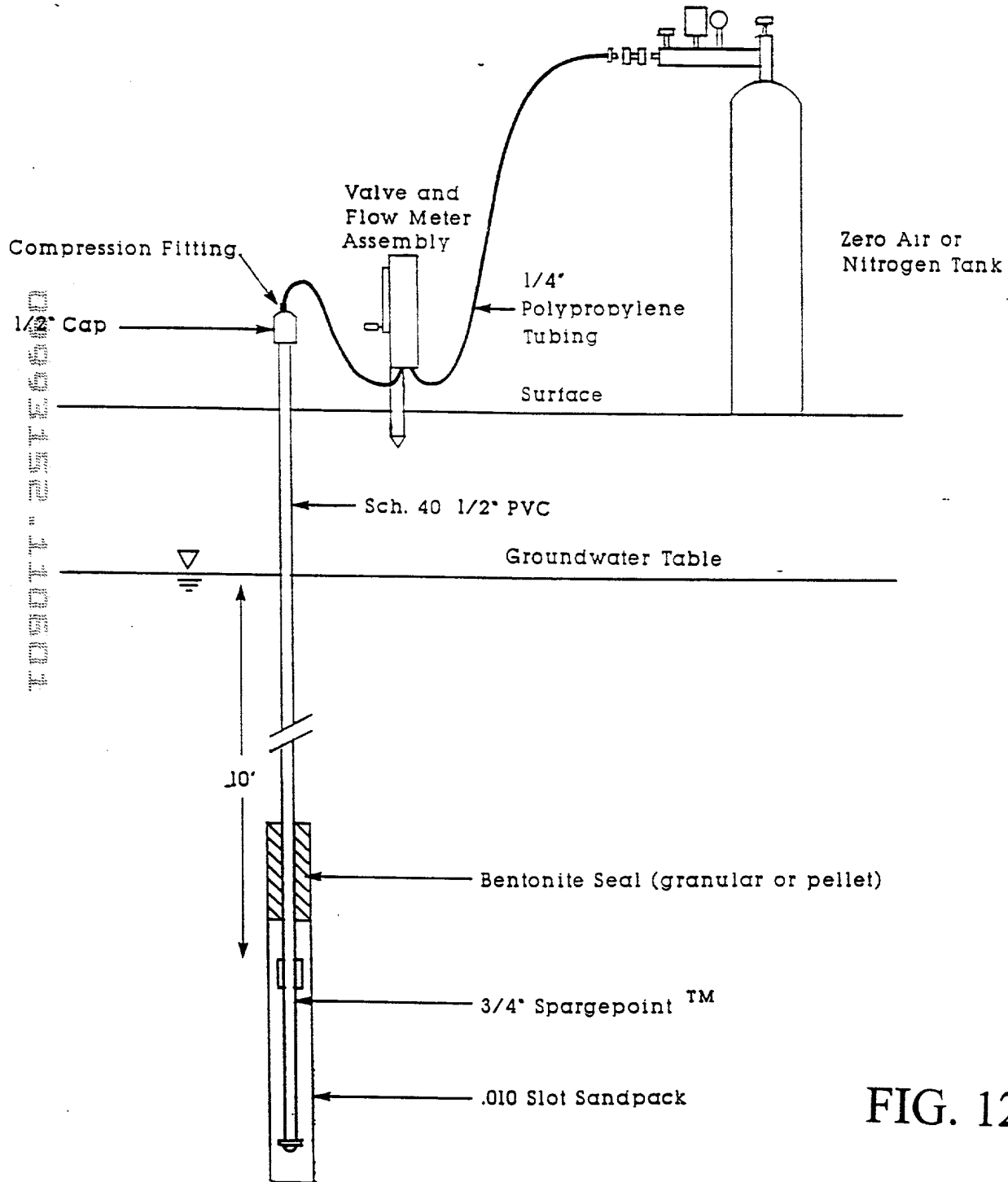


FIG. 12

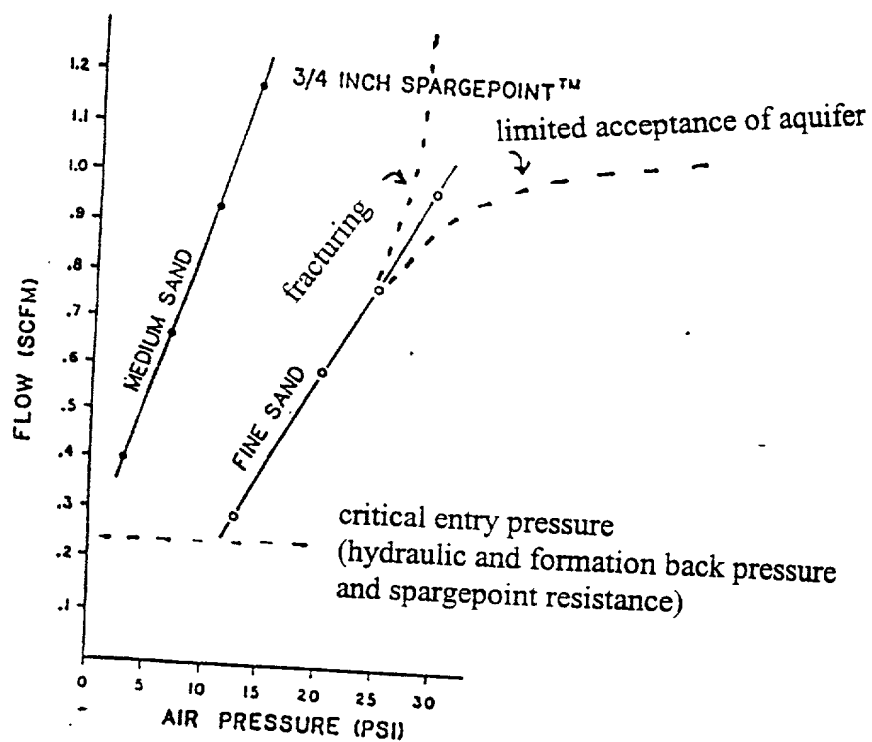


FIG. 13

INFLUENCE OF DEPTH AND PRESSURE ON RADIUS OF BUBBLE ZONE

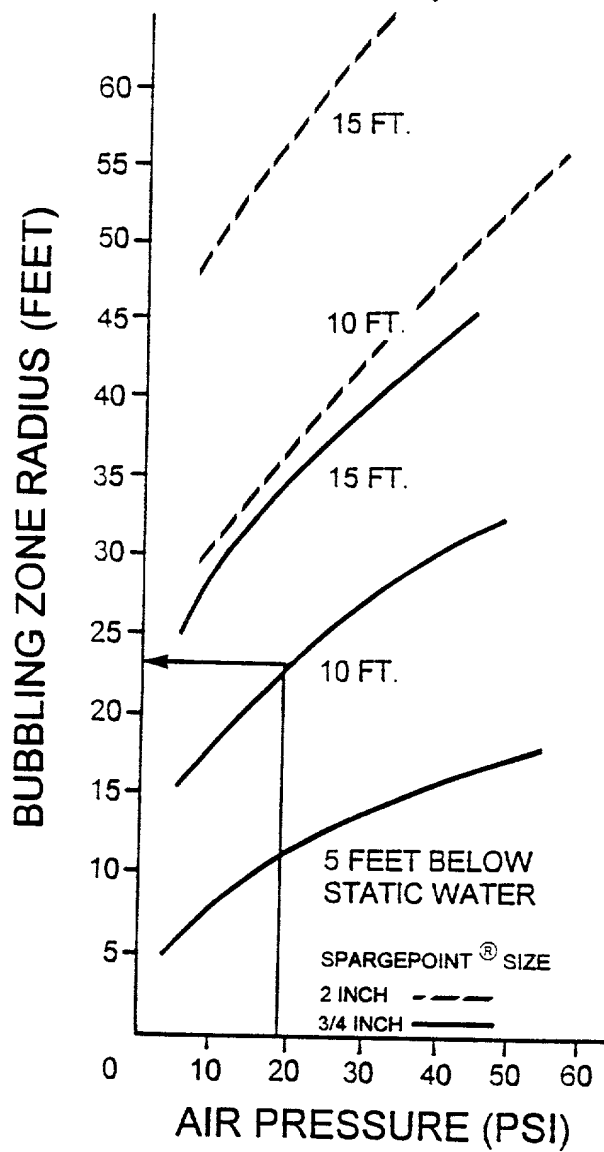


FIG. 14

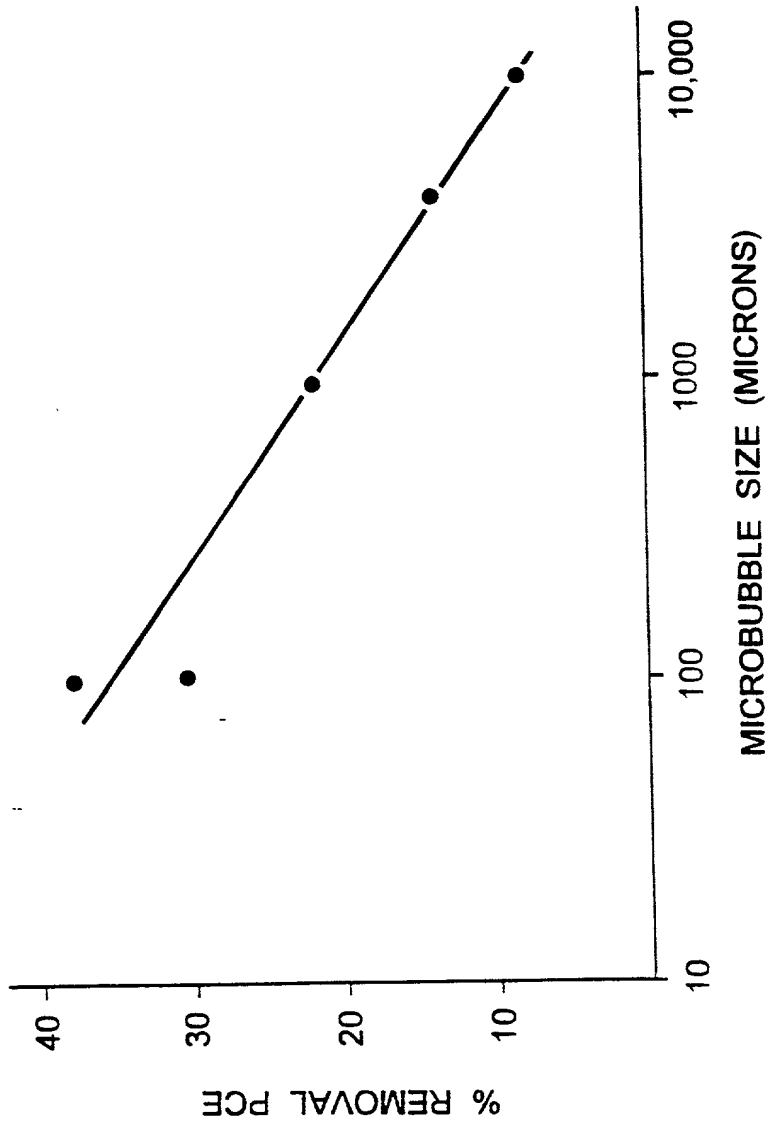


FIG. 15

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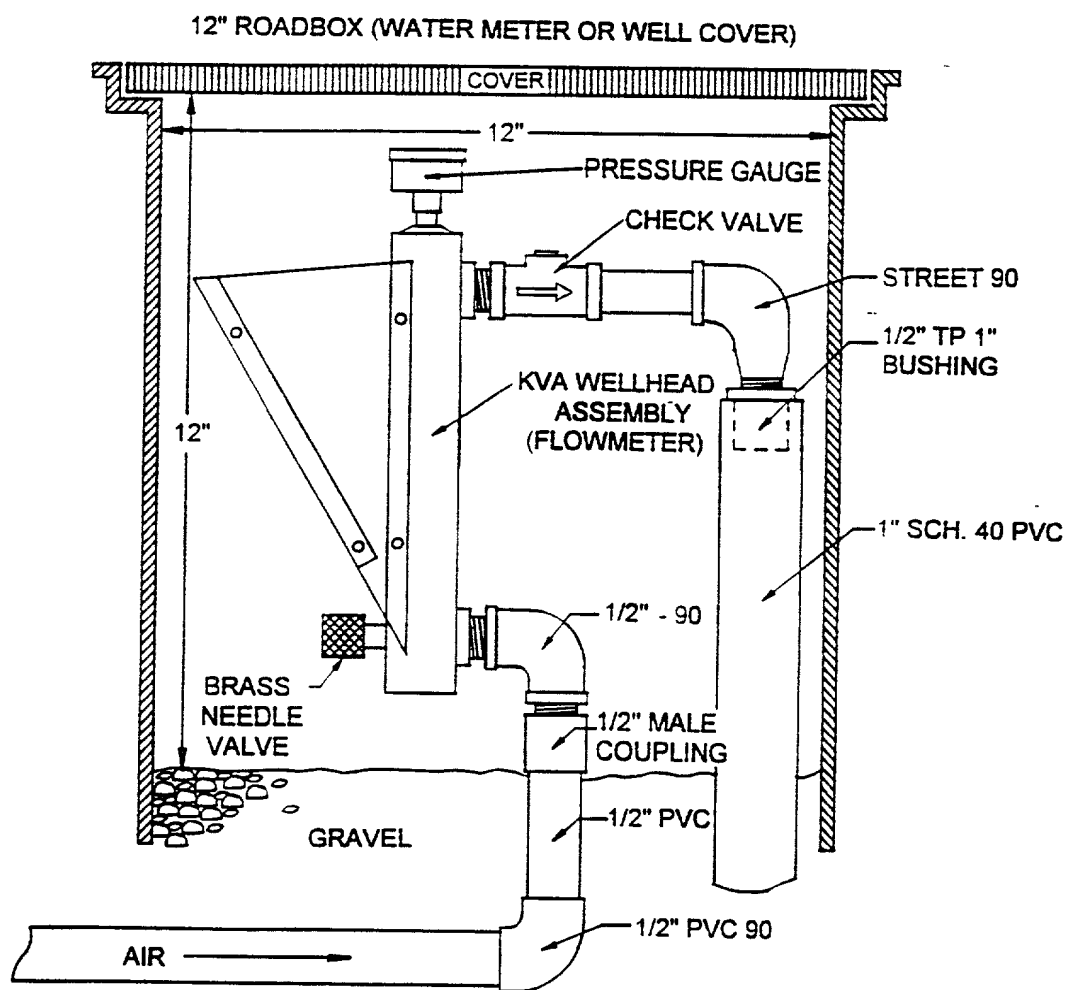
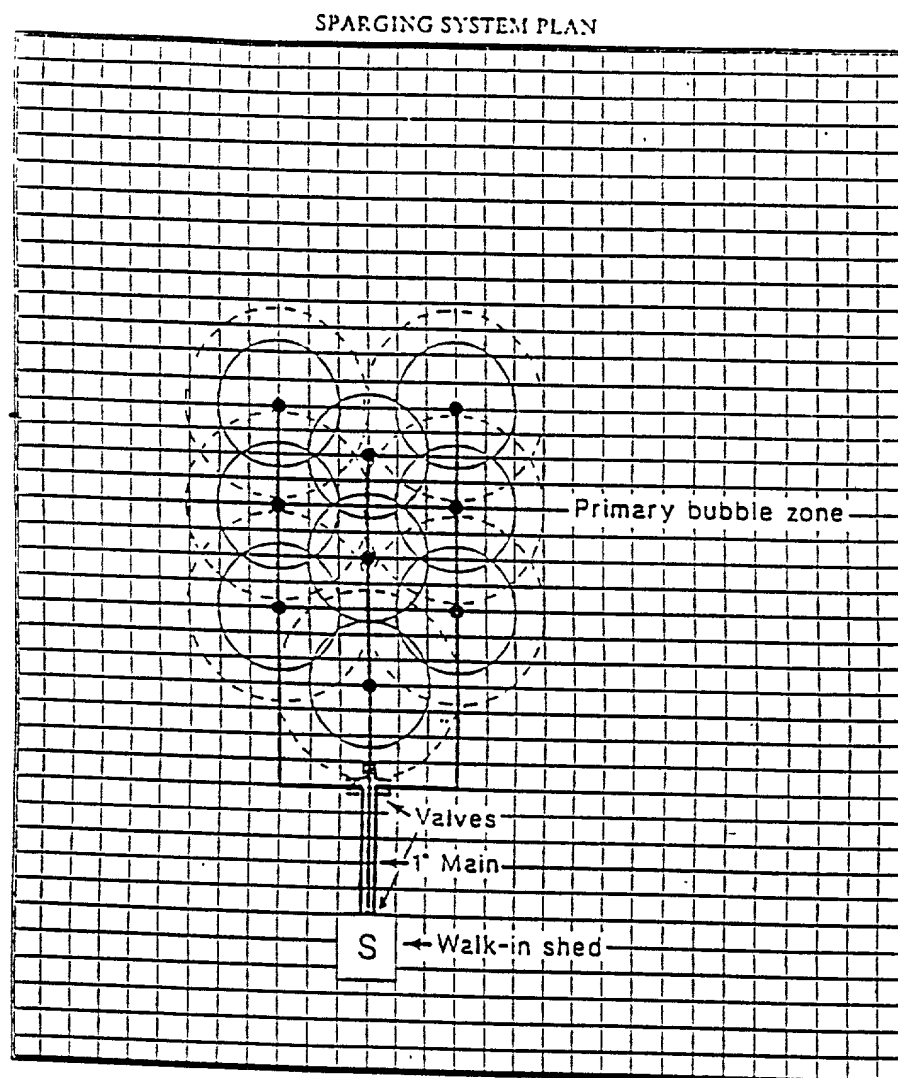


FIG. 16

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Size of Sparge Area	100 x 150 ft	Size of SVE Area	150 x 200 ft
Use of Zone Control?	3 zones	Size of SVE System	150 scfm
Number of Spargepoints™	9	Depth to Water	10 ft
Soil Conditions	MEDIUM SAND	Type of Contaminant	BTEX

FIG. 17

FOOT 25 FEB 66

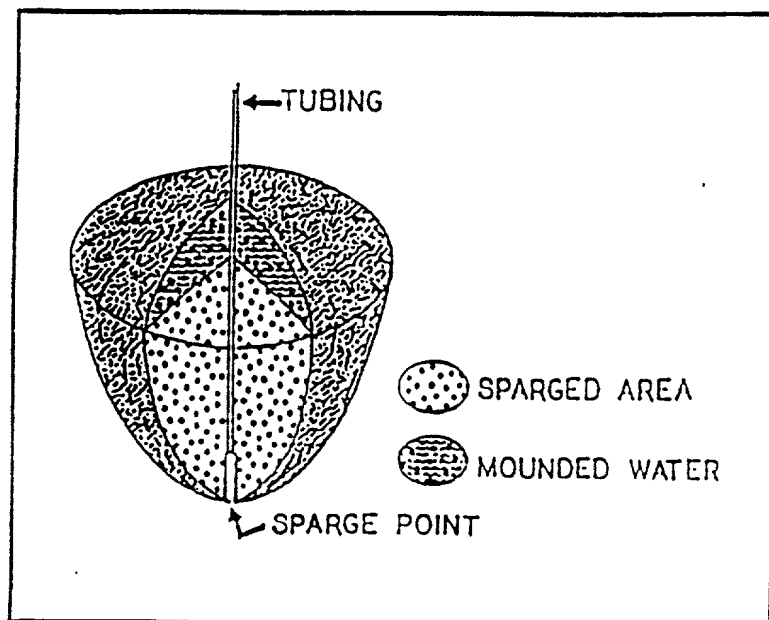


FIG. 18

FOOT 251E660

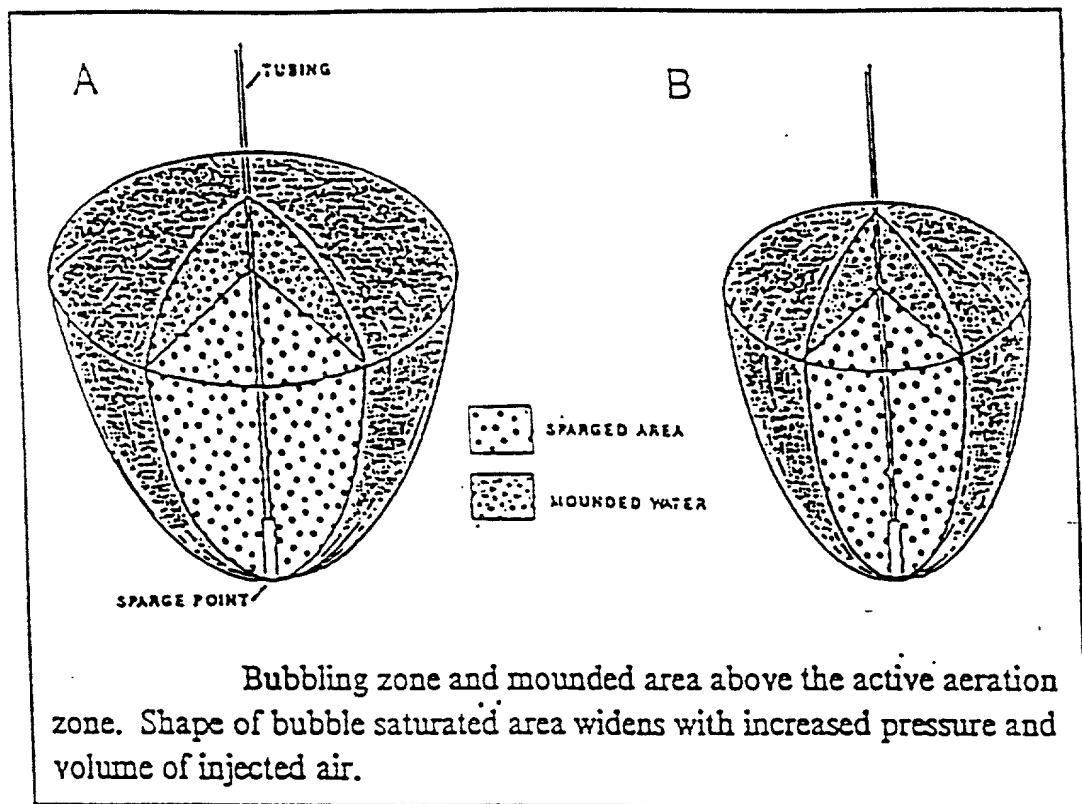


FIG. 19

FIG. 20

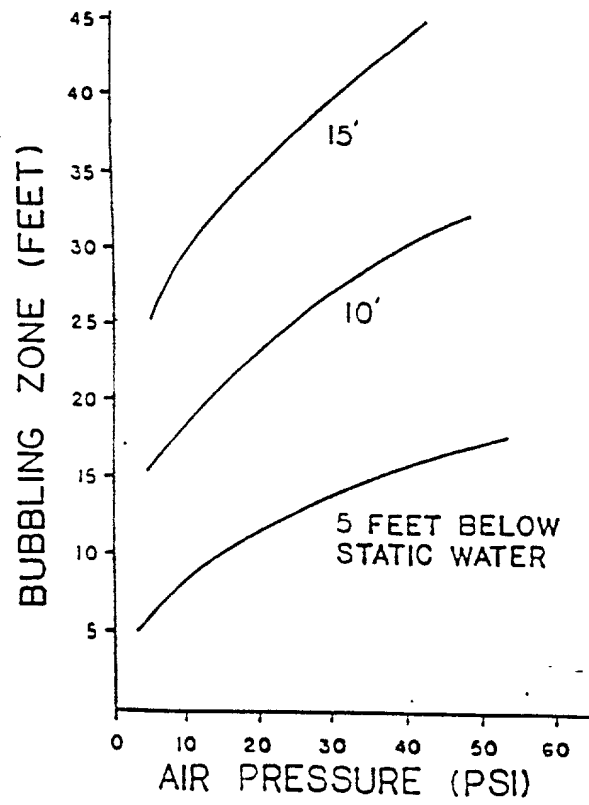


FIG. 20

Sequential rise in water table from bubbling. Concentric zones permit containing Any floating contaminant.

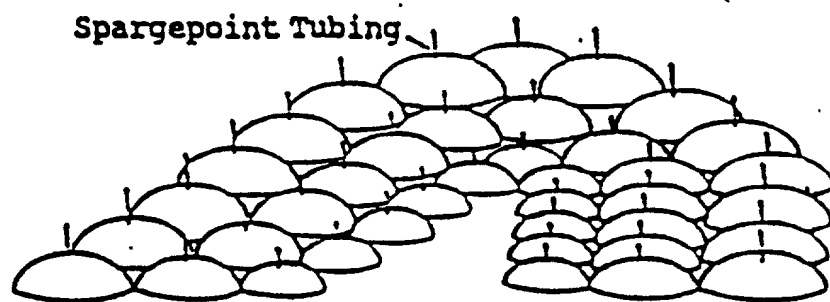


FIG. 21

Sequential rise in water table from bubbling. Concentric zones permit containing any floating contaminant.

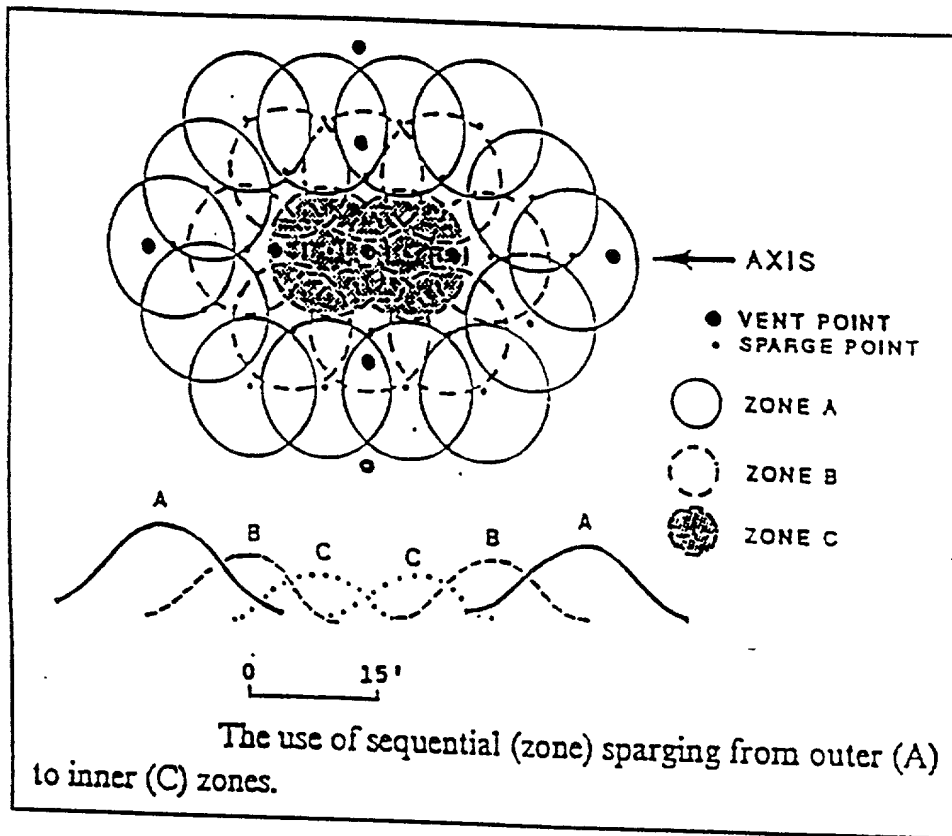


FIG. 22

A schematic diagram of a sparging system. At the top, a rectangular box labeled "SPARGING AIR SUPPLY" is connected by a pipe to a vertical riser pipe. The riser pipe terminates at a "SPARGE POINT" located at the interface between a solid, stippled "SARCOLE" layer at the bottom and a porous "SAND" layer above it. From the sparge point, two teardrop-shaped regions, each filled with dots, represent the "SPARGE ZONE". A dashed line outlines the "SPARGE INFLUENCE ZONE", which is a larger, roughly cylindrical area extending upwards from the sparge point. The upper portion of the diagram, above the sand layer, is labeled "VADOSE ZONE".

FIG. 23A

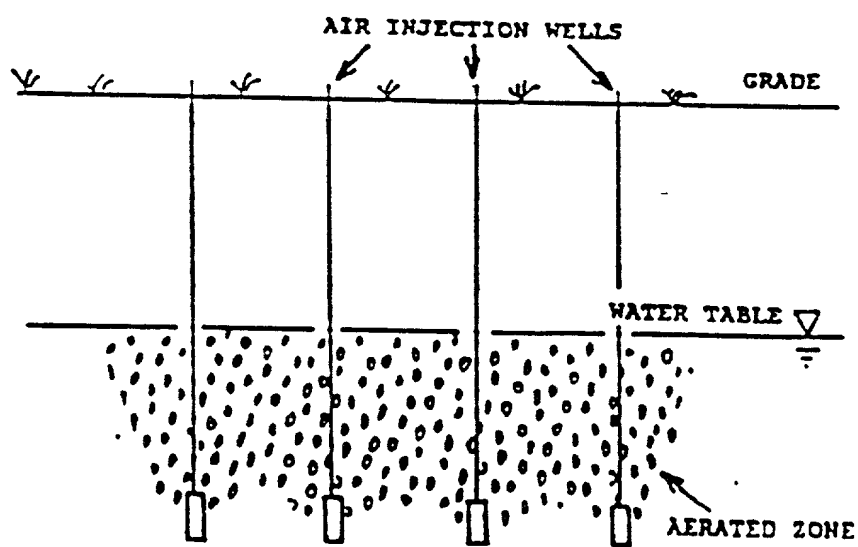


FIG. 23B

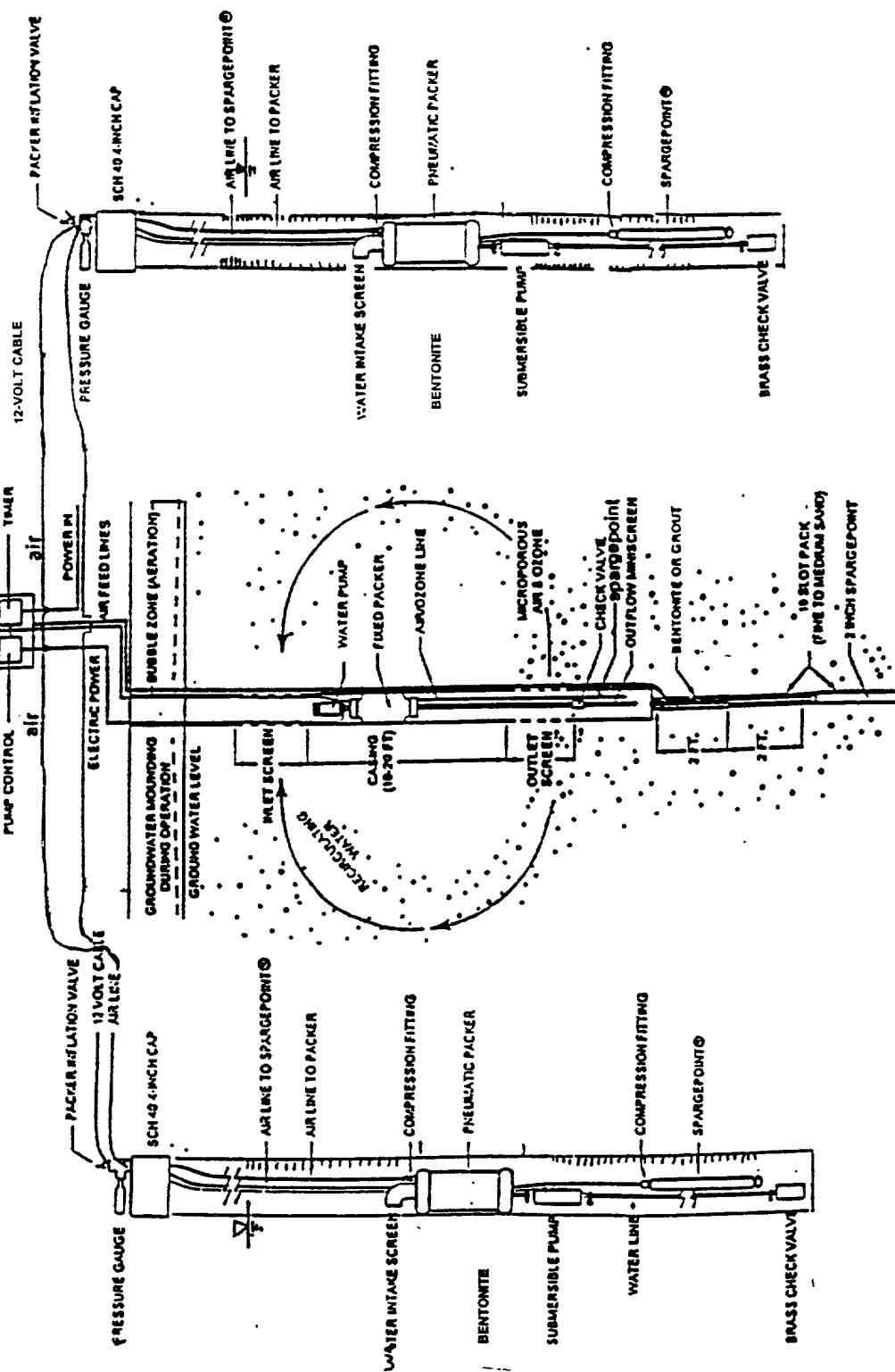
OUTSIDE WEATHER STATION

GAS GENERATOR

COMPRESSOR

PUMP CONTROL

air



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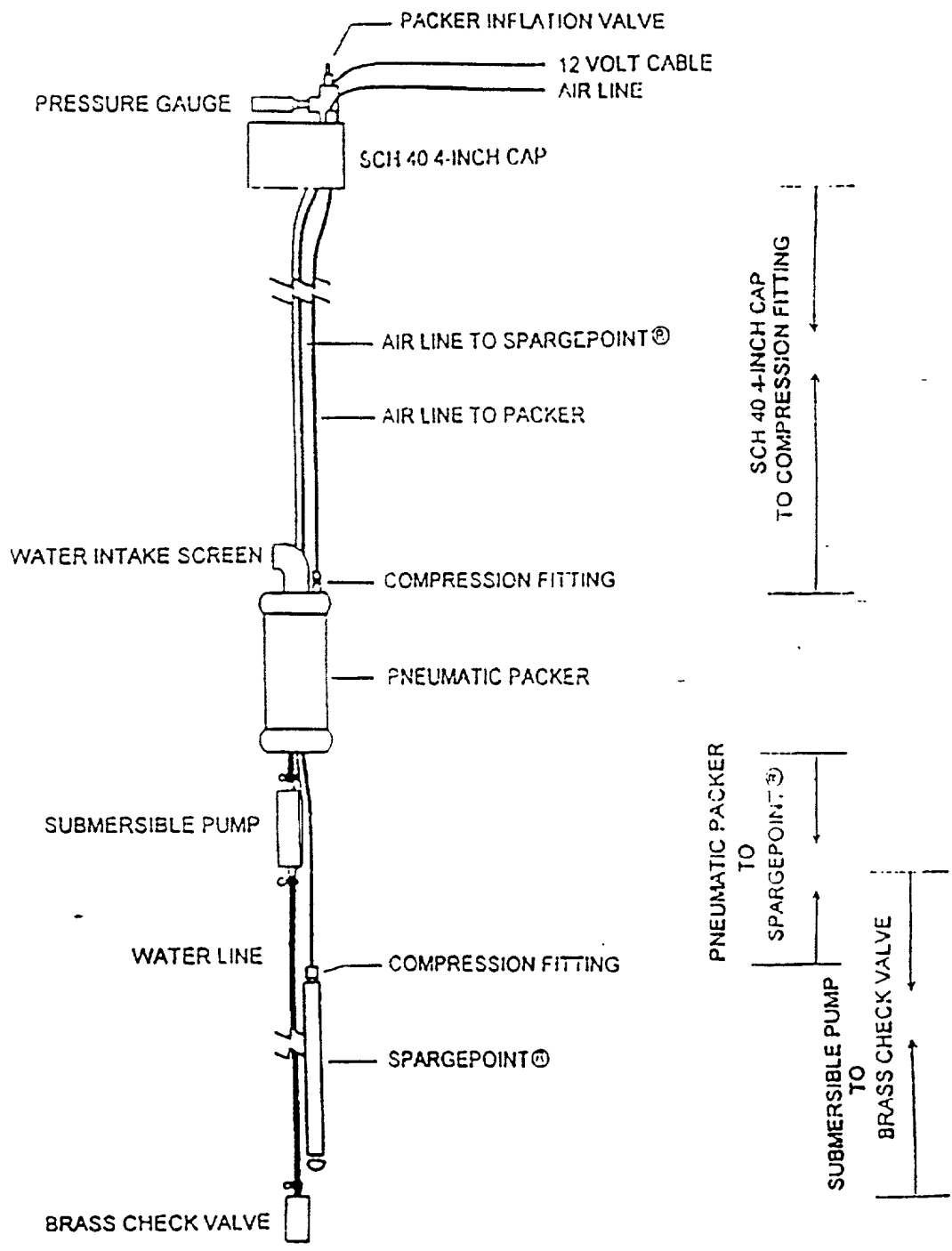


FIG. 25

FIG. 26

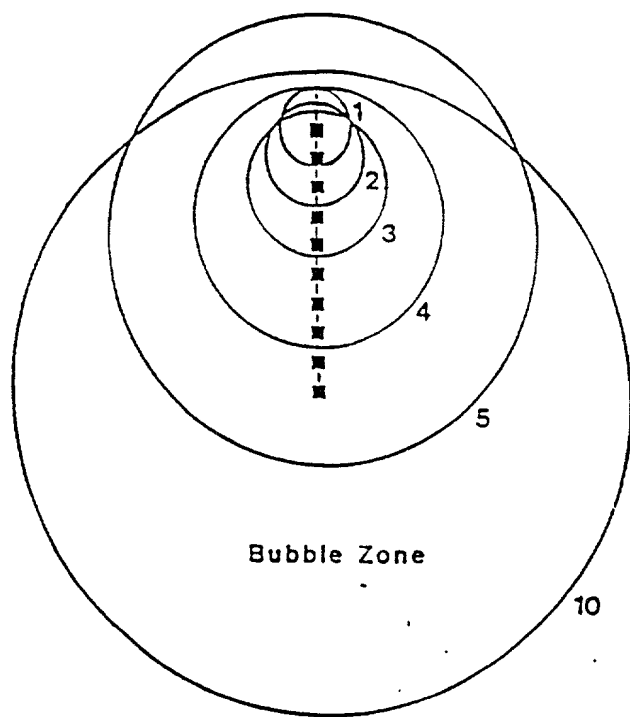


FIG. 26

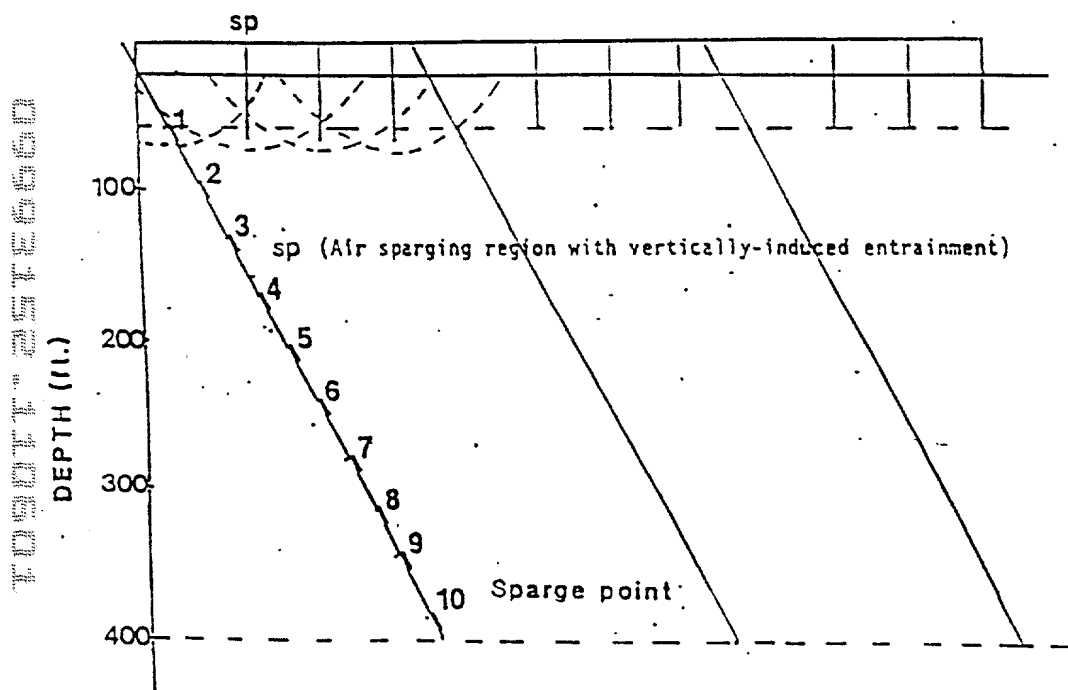


FIG. 27

FOUO 25 FEB 66

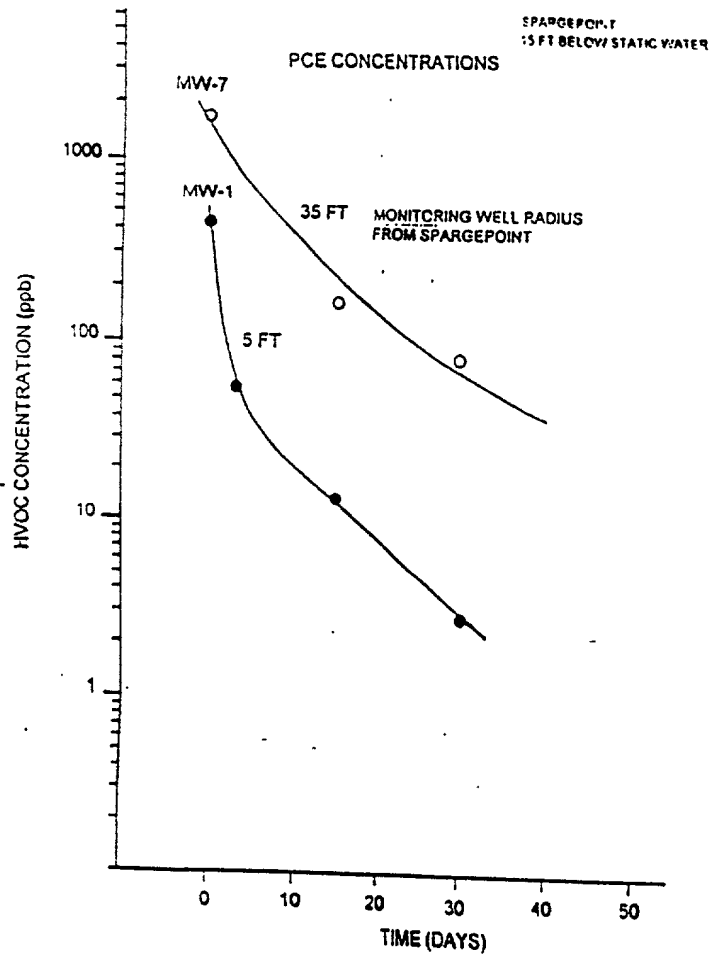


FIG. 28

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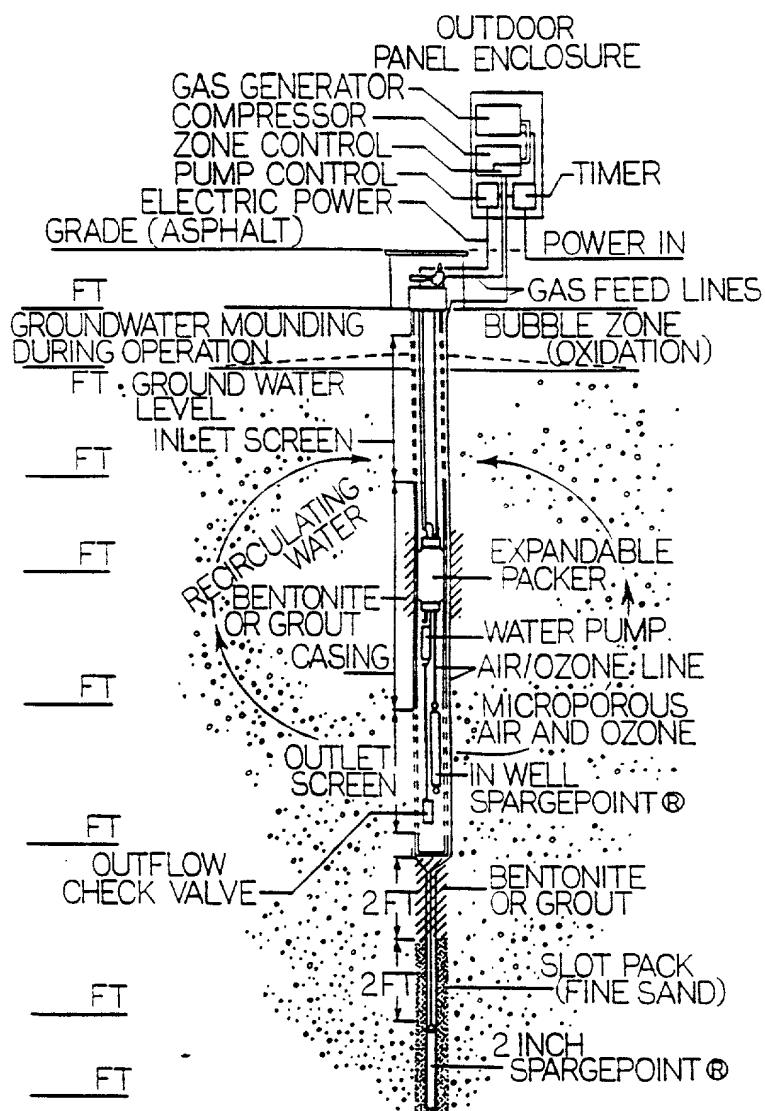
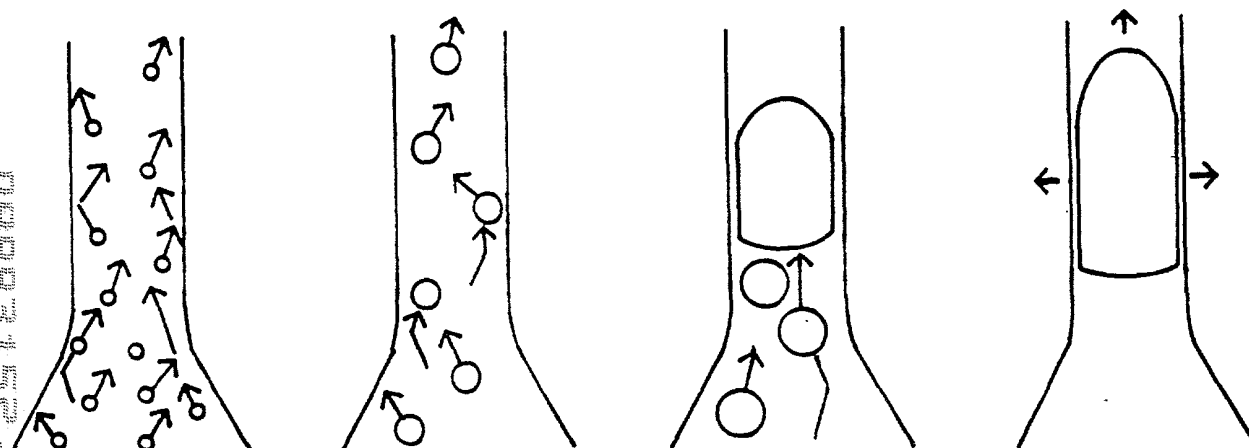


FIG. 29

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Movement of microbubbles through saturated pores as diameter of bubble increases. showing coalescing.

FIG. 30

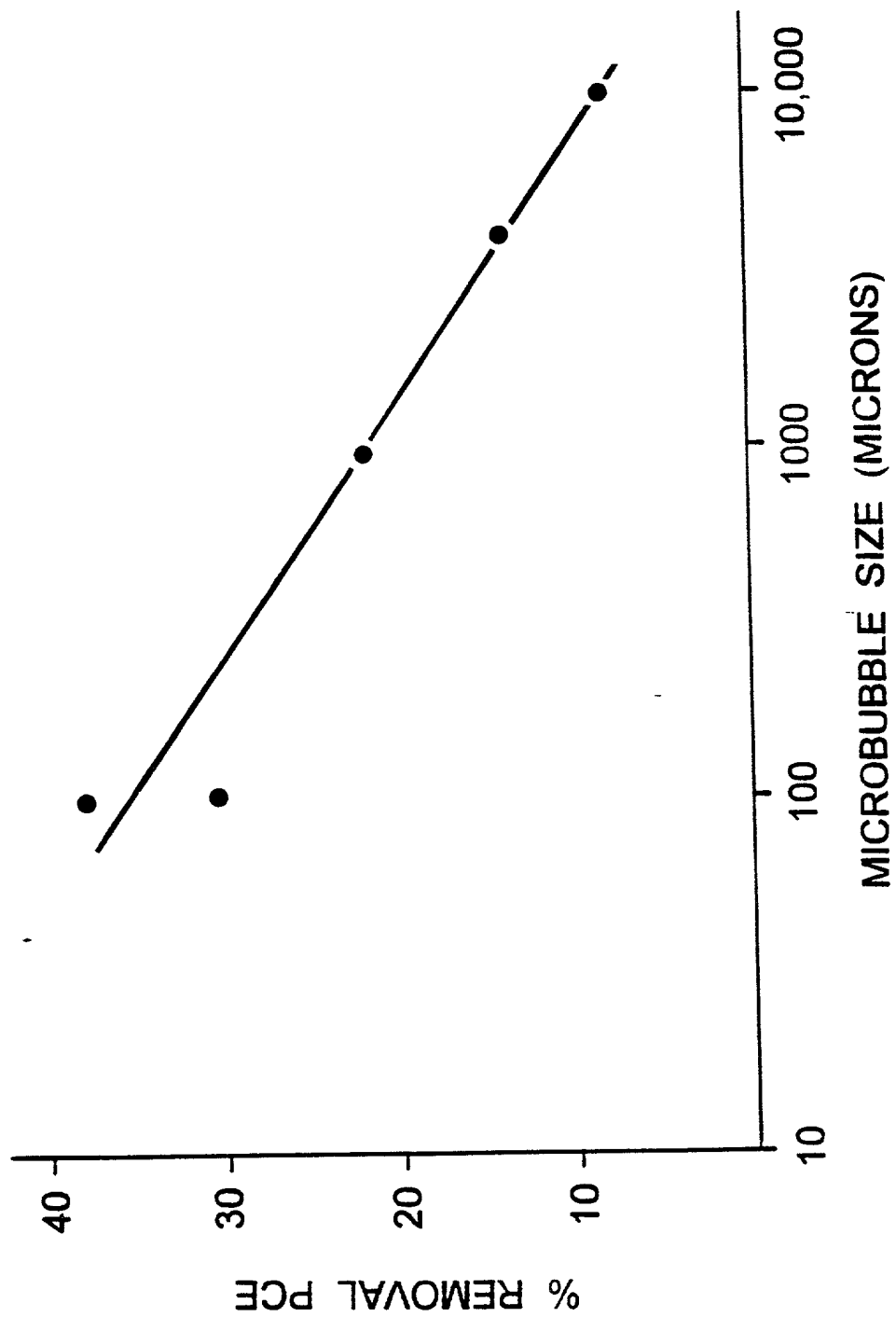


FIG. 31

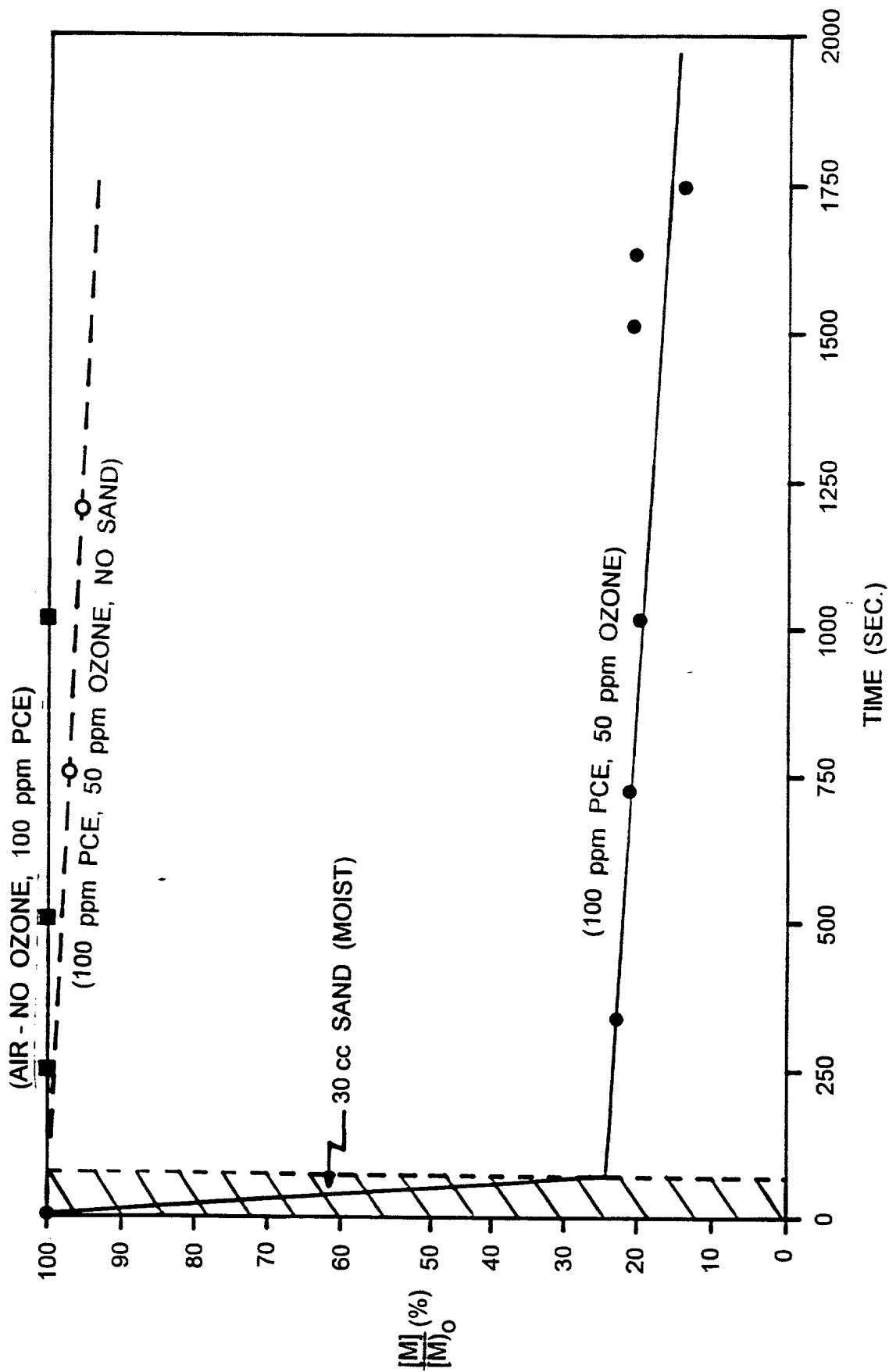


FIG. 32

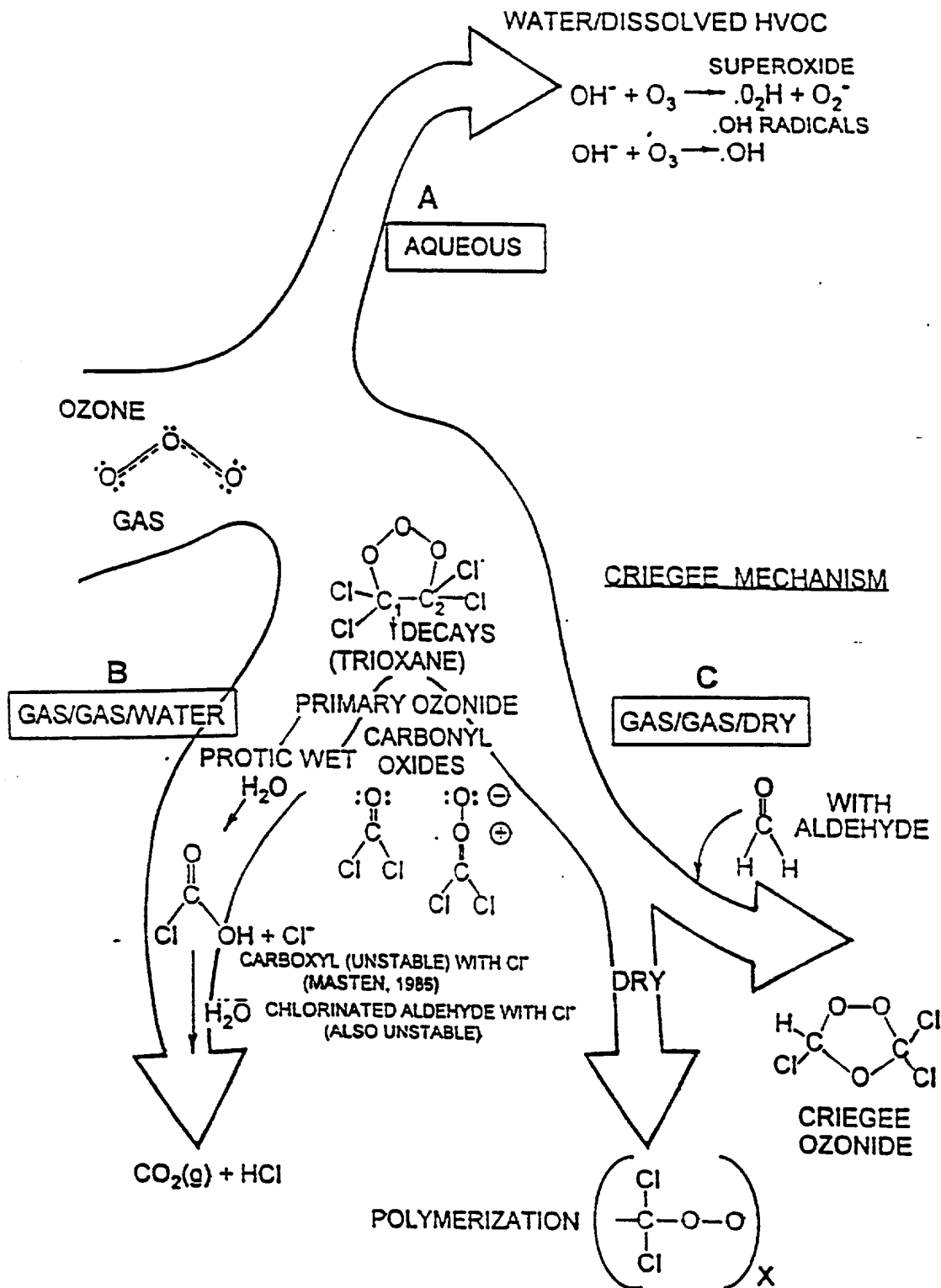


FIG. 34

MICROBUBBLE GENERATOR COLUMN CHAMBER

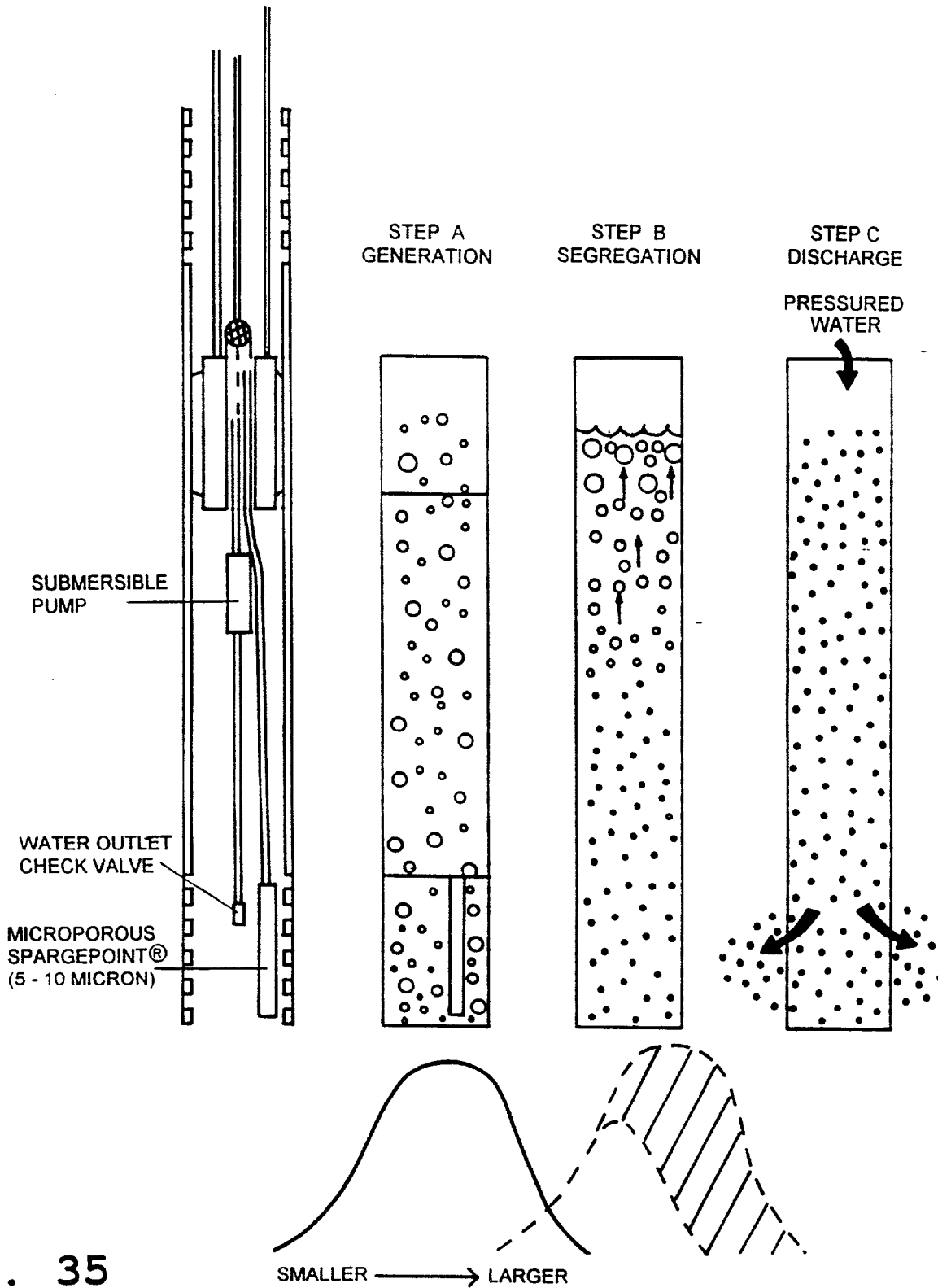


FIG. 35

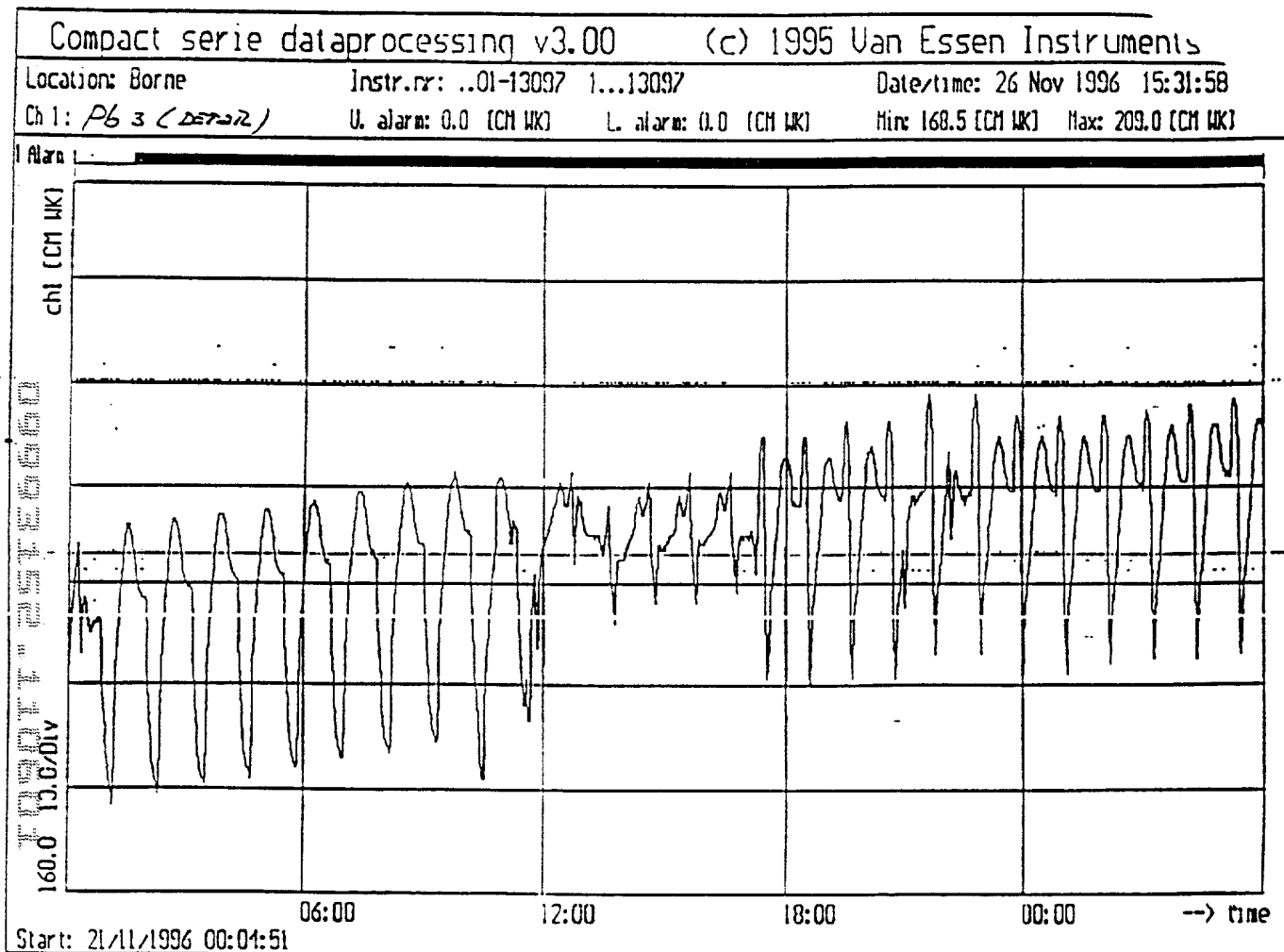


FIG. 36

FOOT " 254660

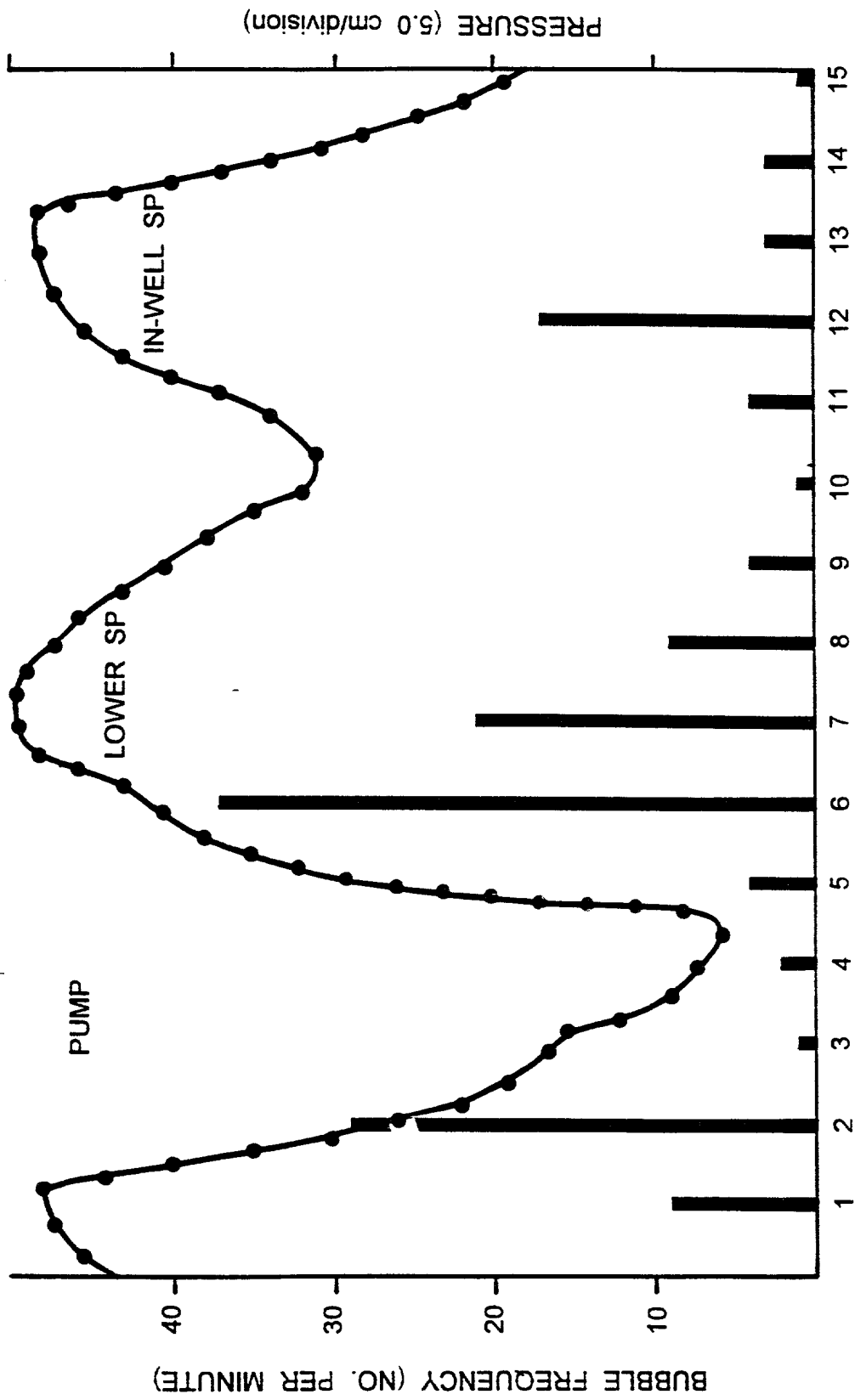


FIG. 37

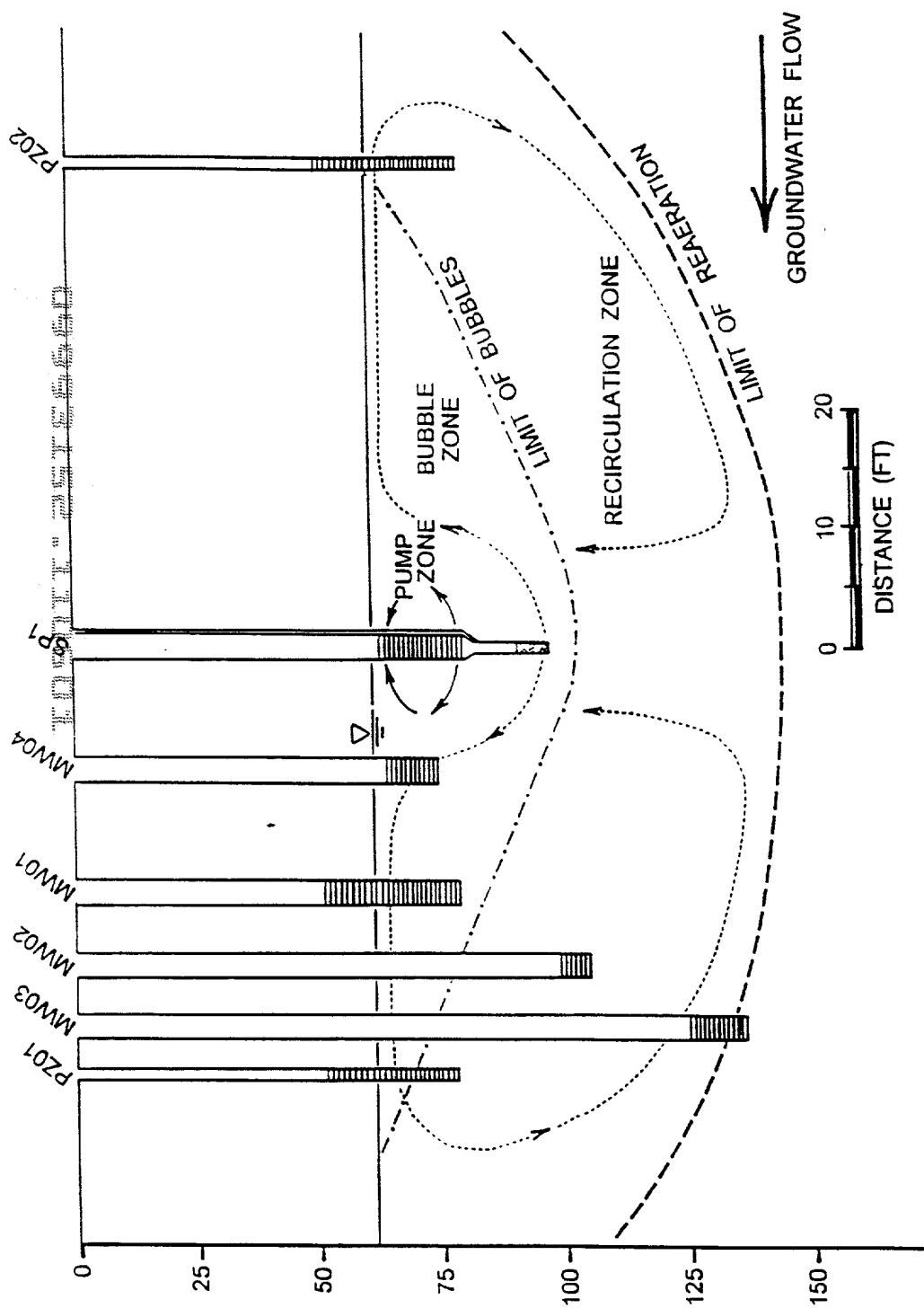


FIG. 38

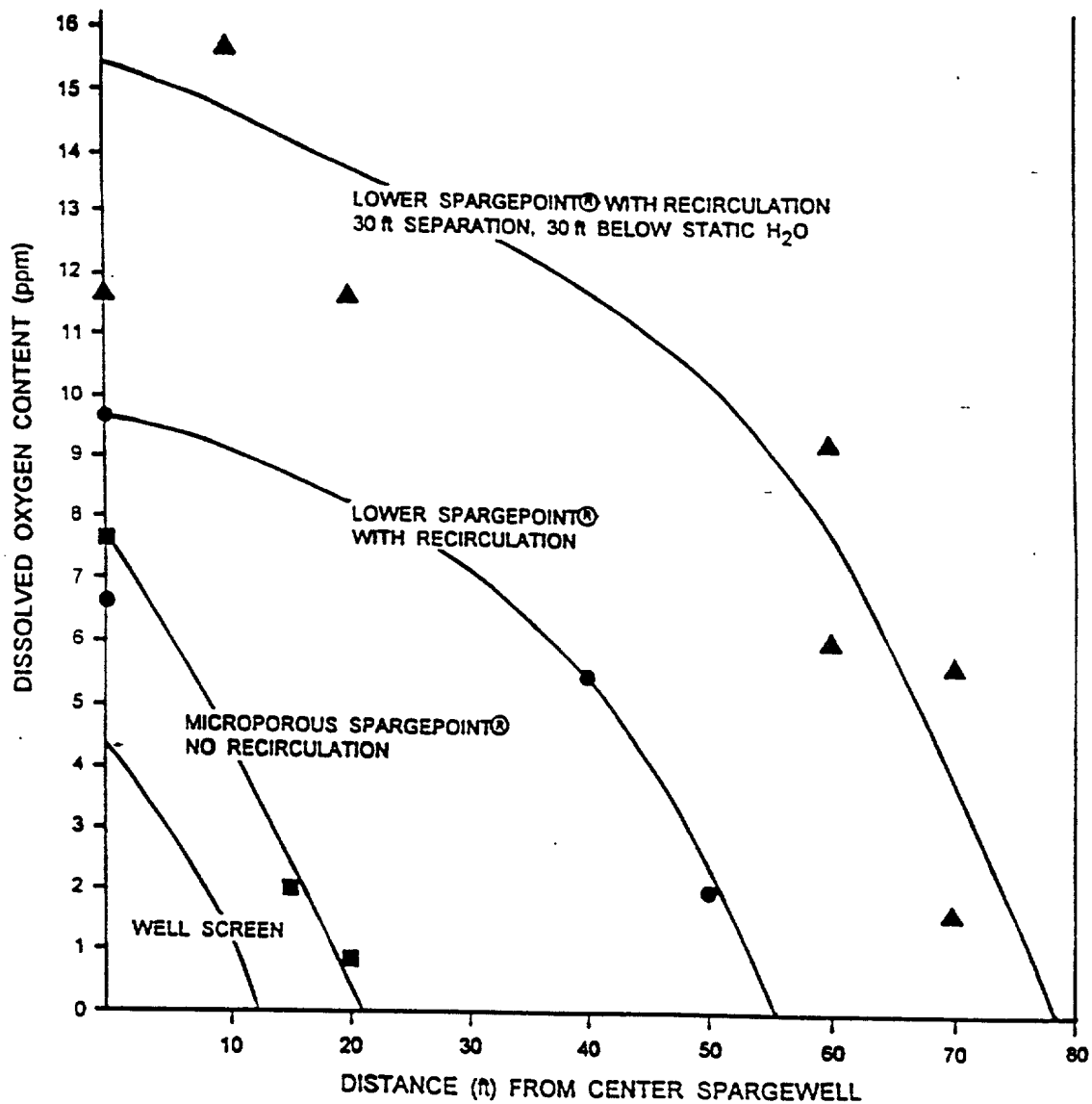


FIG. 39

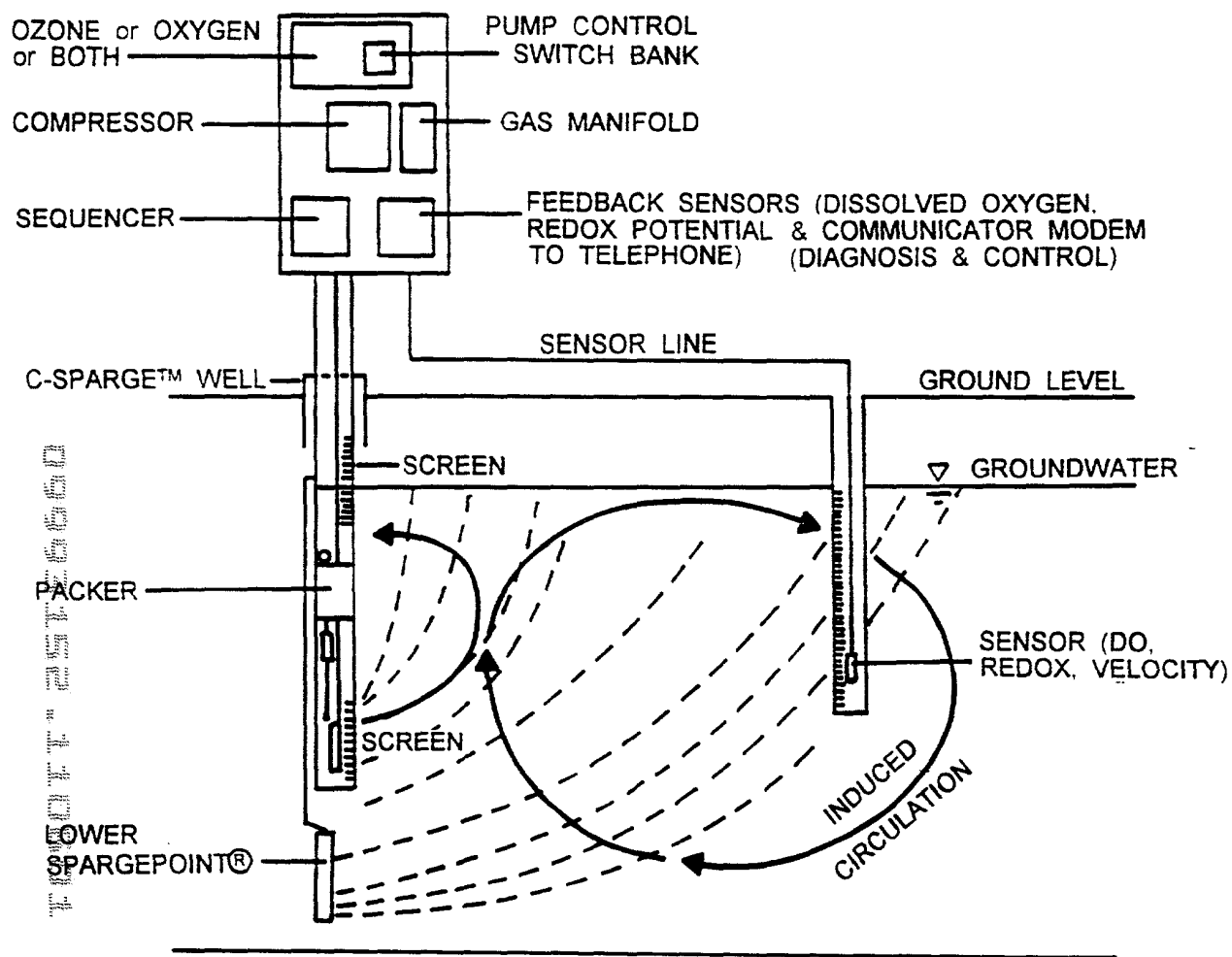


FIG. 40